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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/039,109	01/04/2002	William E. Berry	042390.P13141	8652
75	90 05/07/2003			
Stephen M. De Klerk BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP Seventh Floor 12400 Wilshire Boulevard Los Angeles, CA 90025-1026			EXAMINER	
			EDWARDS, ANTHONY Q	
			ART UNIT	PAPER NUMBER
•			2835	

DATE MAILED: 05/07/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/039,109	BERRY ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Anthony Q. Edwards	2835				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a replace of the period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statulent and patent term adjustment. See 37 CFR 1.704(b).  Status		mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on	· ·					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ T	his action is non-final.					
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims						
4) $\boxtimes$ Claim(s) <u>1-21</u> is/are pending in the application	on.					
4a) Of the above claim(s) is/are withdra	awn from consideration.					
5)⊠ Claim(s) <u>14-16</u> is/are allowed.						
6)⊠ Claim(s) <u>1-4,9 and 17-19</u> is/are rejected.						
7) Claim(s) <u>5-8,10-13,20 and 21</u> is/are objected to.						
8) Claim(s) are subject to restriction and/ Application Papers	or election requirement.					
9) The specification is objected to by the Examin	er.	•				
10) $igotimes$ The drawing(s) filed on <u>04 January 2002</u> is/are	e: a)⊠ accepted or b)☐ objected to	by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) ☐ The oath or declaration is objected to by the E	xaminer.					
Priority under 35 U.S.C. §§ 119 and 120		•				
13) Acknowledgment is made of a claim for foreig	gn priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
a) All b) Some * c) None of:						
1. Certified copies of the priority documen	nts have been received.					
2. Certified copies of the priority documen	nts have been received in Applicat	ion No				
<ul> <li>Copies of the certified copies of the price application from the International B</li> <li>See the attached detailed Office action for a lis</li> </ul>	ureau (PCT Rule 17.2(a)).					
14) ☐ Acknowledgment is made of a claim for domes	tic priority under 35 U.S.C. § 119(	e) (to a provisional application).				
a) ☐ The translation of the foreign language pr 15)☐ Acknowledgment is made of a claim for domes	• •					
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

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## DETAILED ACTION

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 9, and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,496,364 to Medin et al. in view of U.S. Patent No. 6,021,049 to Thompson et al. Referring to claim 1, Medin et al. disclose a computer system comprising a frame (120), a frame-level connector (128) on the frame, a chassis (104) insertable into the frame, and a chassis-level connector (118) on the chassis, which mates with the frame-level connector when the chassis is inserted into the frame. See FIGS. 1 & 3 and the corresponding specification. Likewise, FIG. 3 of Media shows a circuit board (316) on the chassis, which inherently includes a processor. Media doses not disclose a locking mechanism, connected between the frame and the chassis, allowing for movement of the chassis into the frame but preventing movement of the chassis out of the frame, and a disengager, connected to the locking mechanism, which disengages the locking mechanism to allow for movement of the chassis out of the frame.

Thompson et al. disclose a retention device or locking mechanism (41) connected between a frame (43) and chassis (not numbered), as well as a disengager (65) connected to the locking mechanism, allowing movement of the chassis into the frame and movement of the chassis out of the frame, while also preventing movement of the chassis out of the frame. See FIGS. 4-6 and the corresponding specification. It would have been obvious to one of ordinary

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skill in the art at the time the invention was made to modify frame of Thompson et al. to include a retention device, as taught by Thompson et al., to provide secure mechanical attachment of the circuit board connector to and for limiting movement of the same.

Referring to claim 2, 3 and 9, Medin et al. in view of Thompson et al. disclose a computer system, wherein the locking mechanism (41) includes a ratchet gear having a plurality of ratchet teeth (71) and a ratchet pawl (68), movement of the chassis into the frame causing ratchet movement of the ratchet pawl sequentially into successive gaps between subsequent ones of the ratchet teeth, the ratchet pawl catching on a selected one of the ratchet teeth to prevent movement of the chassis in the opposite direction out of the frame, and wherein the disengager (65) has an actuating portion (69) manually movable, movement of the actuating portion causing disengagement of the ratchet pawl from the selected tooth to allow for movement of the chassis in the opposite direction out of the frame. See FIGS. 5 and 6 and the corresponding specification.

Referring to claim 4, Medin et al. in view of Thompson et al. disclose the computer system as claimed. See FIG. 1 of Medlin et al. and FIGS. 4 and 6 of Thompson et al. It is unclear whether Medin et al. in view of Thompson et al. disclose mating of the chassis-level connector with the frame-level connector creates a force between the chassis-level connector and the frame-level connector which tends to disengage the chassis-level connector from the frame-level connector and movement of the chassis in the opposite direction. However, Examiner takes Official Notice that such construction is well known and conventional. It would have obvious to one of ordinary skill in the art at the time the invention was made to have a force between the chassis-level connector and the frame-level connector, which tends to disengage the chassis-level

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connector from the frame-level connector and movement of the chassis in the opposite direction, because such construction is conventional.

Referring to claims 17-19, Medin et al. in view of Thompson et al. disclose the claimed method of operating a computer system including inserting a chassis, having a processor secured thereto, into a frame until a chassis-level connector on the chassis mates with a frame-level connector on the frame, a locking mechanism allowing for movement of the chassis in one direction into the frame but simultaneously locking the chassis to the frame to prevent movement of the chassis in an opposite direction out of the frame; and disengaging the locking mechanism to allow for movement of the chassis in the opposite direction out of the frame, wherein the locking mechanism includes a ratchet gear having a plurality of ratchet teeth, and a ratchet pawl, movement of the chassis into the frame causing ratchet movement of the ratchet pawl sequentially into successive gaps between subsequent ones of the ratchet teeth, the ratchet pawl catching on a selected one of the ratchet teeth to prevent movement of the chassis in the opposite direction out of the frame, such that the disengager has an actuating portion manually movable, movement of the actuating portion causing disengagement of the ratchet pawl from the selected tooth to allow for movement of the chassis in the opposite direction out of the frame. See FIGS.

## Allowable Subject Matter

Claims 4-8, 10-13, 20 and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The following is a statement of reasons for the indication of allowable subject matter:

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Claims 7, 8, 12 and 13 are allowable. Claims 7 and 12 recite a computer system having a mount structure on its frame and a frame-level connector, wherein further movement of a chassis into the frame causes movement of the mount structure relative to the frame. These features, in combination with the rest of the elements or steps, are not taught or suggested by the prior art references. Claim 8 depends, either directly or indirectly, from claim 7 and is therefore allowable for at least the reasons provided above. Likewise, Claim 13 depends, either directly or indirectly, from claim 12 and is therefore allowable for at least the reasons provided above.

Claims 5, 6, 10 and 11 are allowable. Claims 5 and 10 recite a computer system further comprising a biasing component, connected between the frame and the chassis, which biases the chassis in the opposite direction after insertion of the chassis into the frame, a force created by the biasing component moving the chassis out of the frame after the locking mechanism disengages. These features, in combination with the rest of the elements or steps, are not taught or suggested by the prior art references. Claim 6 depends, either directly or indirectly, from claim 5 and is therefore allowable for at least the reasons provided above. Likewise, Claim 11 depends, either directly or indirectly, from claim 10 and is therefore allowable for at least the reasons provided above.

Claims 20 and 21 are allowable. Claim 20 recites a method of operating a computer system, wherein the frame-level connector is mounted to a mount structure movably mounted to the frame, the chassis being moved so that, after the chassis mates with the frame-level connector, the mount structure is moved relative to the frame. These features, in combination with the rest of the elements or steps, are not taught or suggested by the prior art references.

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Claim 21 depends, either directly or indirectly, from claim 20 and is therefore allowable for at

least the reasons provided above.

Claims 14-16 are allowed. Claim 14 recites a computer system comprising a frame and

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a mount structure movably on the frame. These features, in combination with the rest of the

elements or steps, are not taught or suggested by the prior art references. Claims 15 and 16

depends, either directly or indirectly, from claim 20 and is therefore allowable for at least the

reasons provided above.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Anthony Q. Edwards whose telephone number is 703-605-4214.

The examiner can normally be reached on M-F (7:30-3:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Darren Schuberg can be reached on (703) 308-4815. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 308-7722 for regular

communications and (703) 306-5511 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 306-9929.

aqe

April 29, 2003

DARREN SCHUBERG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800